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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,886	08/30/2001	Michael Anthony Pugel	PU010164	9822
7590 03/03/2006			EXAMINER	
JOSEPH S. T		MEHRA, INDER P		
THOMSON M 2 INDEPENDI	IULTIMEDIA LICENSIN ENCE WAY	ART UNIT	PAPER NUMBER	
P.O. BOX 5312			2666	
PRINCETON,	NJ 08543-5312	DATE MAILED: 03/03/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

			L A U A \			
		Application No.	Applicant(s)			
		09/942,886	PUGEL, MICHAEL ANTHONY			
	Office Action Summary	Examiner	Art Unit			
		Inder P. Mehra	2666			
Period fo	The MAILING DATE of this communication approximation of the communication approximation approxima	ppears on the cover sheet with the o	correspondence address			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be tile 1.136(a). In no event, however, may a reply be tile 1.136(a). In no event, however, may a reply be tile 2.14 display and will expire SIX (6) MONTHS from 2.14 display and will expire SIX (6) MONTHS from 2.15 display and will expire SIX (6) MONTHS from 2.15 display and will expire SIX (6) MONTHS from 2.16 display and will expire SIX (6) MONTHS from 2.17 display and will expire SIX (6) MONTHS from 2.18 display and will expire SIX (6) MONTHS from 2.19 display and will expire SIX (6) MONTHS from 2.10 display and will expire SIX	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 30	November 2005.				
2a)□						
3)[☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)🖂	☑ Claim(s) <u>2-8 and 13-21</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
	Claim(s) <u>2-8 and 13-21</u> is/are rejected.					
· —	Claim(s) is/are objected to.					
8)∐	Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10)🛛	10)⊠ The drawing(s) filed on <u>30 August 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority.	nts have been received. nts have been received in Applicat	ion No			
	application from the International Bure	•	ed in this National Otage			
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen						
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)						
	er No(s)/Mail Date	6) 🔲 Other:				

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DETAILED ACTION

1. This office action is in response to amendment dated: 11/30/2005. Based on this amendment claims 2-8 and 13-21 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claim 2-8, 13-15, 16 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Gordon et al (US patent No. 6,754, 271), hereinafter, Gordon.

For claims 3, 13 and 16, Gordon discloses a method, comprising:

- associating each of at least one group of packets forming a bit stream with a stream identifier and a respective sequence code, said at least one group of packets comprising at least one bit stream packet, (refer to fig. 20, and col. 23 line 63-col. 24 line 13); and
- transmitting, via any one of a plurality of available transmission channels,
 each of said at least one group of packets, said transmission channels
 nominally transmitting NULL packets (refer to "add null pakets", col. 22
 lines 55-60), in the event of underutilization, said at least one group of packets

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being transmitted in place of said nominally transmitted NULL packets (The <u>null</u> data may be replaced by the graphics grid slices (e.g., at a later step, within the LNE, refer to col. 33 lines 35-40);

- said data structure comprising a header portion and a payload portion, said
 payload portion, as recited by claim 16, refer to col. 9 lines 45-50 and col. 12
 lines 24-26.
- adapting a packet structure for at least one packet of said at least one group of packets (video 2012 a-j, audio 2014 and data streams 2016a-j of packets) to conform to a network packet structure suitable for use by said transmission channels (Final transport streams, 2018), refer to fig. 20, col. 23 lines 63-67;

For claims 2, 4-8, 14-15 and 19, Gordon discloses all the limitations of subject matter of these claims including the following limitations:

wherein at least one of said at least one group of packets forming said bit stream are correlated with channel identification, as recited by claim 2, refer to fig. 20, and time of transmission information for, respectively, indicating which of said plurality of transmission channels, as recited by claims 2 and 6, will carry respective packet groups and the time said at least one group of packets are carried, as recited by claim 2, (refer to fig. 20 and col. 23 lines 63-65 for "time period" and col. 24 for "time point").

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 said network packet structure comprises a header portion and a payload portion, said payload portion including at least one associated groups of packets, as recited by claim 4, (refer to fig.2,packetizer, col. 9 lines 5-8);

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- said network packet structure includes stream identifier and sequence code
 information corresponding to said at least one group of packets included
 within said payload portion, as recited by claim 5, refer to figs. 20-21, refer
 to col. 24 lines 54-56;
- determining the loading of each of a plurality transmission channels, as
 recited by claim 7, (refer to fig. 2, multiplexing unit 116 ----to produce one
 or more transport streams---video, audio, and data streams, refer to col. 6
 lines 39-42);
- determining an allocation of bit stream packets among the transmission channels, refer to packetizers 240a-m, col. 9 lines 5-15;
- inserting non-allocated bit stream packets into said transmission channels in place of said nominally transmitted NULL packets, (refer to "the null data may be replaced by the graphics grid slices (e.g., at a later step, within the LNE, refer to col. 33 lines 35-40),
- wherein said allocation of bitstream packets among said transmission channels is determined with respect to at least one of the following criteria;

transmission channel data rates, bitstream data rate, transmission channel utilization level, transmission channel loading level, transmission channel scheduling, bitstream quality of service requirement, and recited by claim 8,

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refer to col. 25 lines 4-14..

- wherein said network interface utilizes said channel identification and time of transmission information to allocate respective transmission channel time slots to said at least one group of packets to be transmitted via said identified channel, as recited by claim 15, (refer to "fig. 29, and col. 29 lines 24-27).
- 4. Claims 17-18 and 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gordon et al, hereinafter, Gordon, in view of Yasuda et al (US Patent No.6,373,905), hereinafter, Yasuda.

For claims 17-18 and 20-21, Gordon discloses all the limitations, with the exception of the following limitations, which are disclosed by Yasuda, as follows:

- wherein said stream identifier and said sequence code are stored within said header portion of said data structure, as recited by claim 17, refer to col. 2 lines 37-44.
- wherein said stream identifier and said sequence code are stored within the
 payload portion of said data structure, as recited by claim 18,, refer to col. 2
 lines 37-44.
- wherein said channel identification and time of transmission information are stored within said header portion of said data structure, as recited by claim
 20, , refer to col. 2 lines 37-44.

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wherein said channel identification and time of transmission information are stored within the payload portion of said data structure, as recited by claim
 21, , refer to col. 2 lines 37-44.

It would have been obvious to the person of ordinary skill in the art at the time the invention to use the capability of stream identifier and said sequence code are stored within said header portion as well as payload portion of said data structure. The capability can be implemented at the Network Packet converter. The motivation for doing so as taught by Yasuda being that different paths are routed for the same flow.

Response to Arguments

5. Applicant's arguments with respect to claim 2-8 and 13-21 have been considered but are moot in view of the new ground(s) of rejection.

Applicant argues, none of the cited references teach or suggest the following limitations of amended Claim 3:

transmitting, via any one of a plurality of available transmission channels, each of said at least one group of packets, said transmission channels nominally transmitting NULL packets in the event of underutilization, said at least one group of packets being transmitted in place of said nominally transmitted NULL packets to minimize the underutilization of said transmission channels', and

Moreover, it is respectfully asserted that none of the cited references teach or suggest the following limitations of amended Claim 13:

a network interface, for causing said associated at least one group of packets to be inserted into any one of a plurality of available transmission channels in place of NULL packets nominally transmitted in the event of transmission channel underutilization to minimize the underutilization of said transmission channels,

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In response, it is stated that Gordon discloses, "transmitting, via any one of a plurality of available transmission channels, each of said at least one group of packets, said transmission channels nominally transmitting NULL packets" (refer to "add null pakets", col. 22 lines 55-60), "in the event of underutilization, said at least one group of packets being transmitted in place of said nominally transmitted NULL packets" (The <u>null</u> data may be replaced by the graphics grid slices (e.g., at a later step, within the LNE, refer to col. 33 lines 35-40);

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

In this case, however, Gordoin discloses singularly, "transmitting, via any one of a plurality of available transmission channels, each of said at least one group of packets, said transmission channels nominally transmitting NULL packets (refer to "add null pakets", col. 22 lines 55-60), in the event of underutilization, said at least one group of packets being transmitted in place of said nominally transmitted NULL packets (The null data may be replaced by the graphics grid slices (e.g., at a later step, within the LNE, refer to col. 33 lines 35-40);

In light of above explanation, arguments by applicant are not persuasive.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Inder P. Mehra whose telephone number is 571-272-3170. The examiner can normally be reached on Monday through Friday from 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Inder P Mehra
Examiner

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